SATELLITE
RECEIVERS LTD.

Home Satellite Systems I and II

Satellite Receivers Ltd. is a well-established, reputable name in the satellite communications industry. We are, and have been, instrumental in developing satellite communications in the Midwest. Satellite Receivers is committed to the best quality products available.

Our long-term association with the leading manufacturers makes it possible for Satellite Receivers to put together the very best satellite communications systems.

The superior components we offer are your assurance of quality, reliability and value.

Home Satellite System I

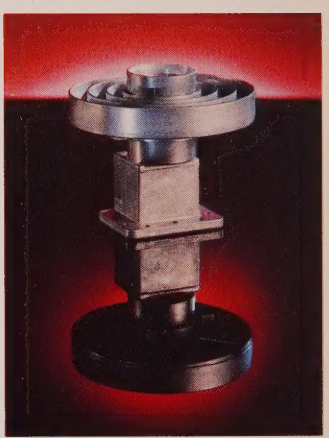
Home Satellite System I

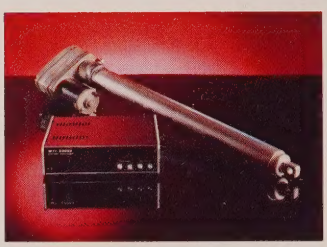
The Home Satellite System I includes all the quality components needed to receive over 100 satellite TV channels 24 hours a day. System I delivers adult entertainment, the latest movies, family entertainment, news shows, educational features, sporting events, weather reports and more. The complete package includes the M/A-COM eight-foot antenna (dish) system with the M/A-COM Universal Mount, the M/A-COM T-1 satellite receiver with parental supervision channel lockout, the M/A-COM Omni Rotor™, and the PenTec MTI 2800 Stardrive Antenna Positioner. All of these components are designed to work together for exceptional picture quality. Plus Satellite Receivers stands behind the equipment with a one-year warranty on parts and labor.

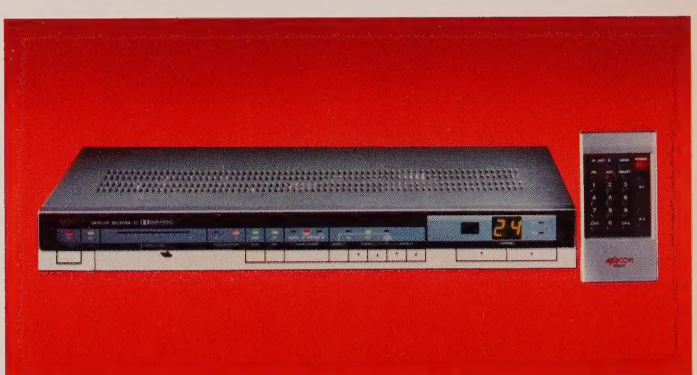
Options

- Ten-foot antenna system
- H-1 receiver
- Pipe - D.B.
- 4100 remote control antenna positioning system
- Multiple receiver hookup

For more detailed information, refer to the separate component sheets in the back of this folder.







Home Satellite System II

Home Satellite System II

The Home Satellite System II, the top-of-the-line component package for the discriminating customer, delivers expanded television programming, as well as the ultimate radio experience. System II provides over 100 satellite TV channels 24 hours a day. System II offers adult entertainment, sporting events like tennis and racing, the latest movies, family entertainment, fashion news, stocks, commodities, news shows, educational features, weather reports and more. The complete package is comprised of the very best quality components available: The M/A-COM ten-foot antenna (dish) system with the M/A-COM Universal Mount, the M/A-COM H-1 satellite receiver with parental supervision channel lock-out, the M/A-COM Omni Polarizer, and the PenTec MTI 4100 Infrared Remote Control Antenna Positioning System. All of these components are designed to work together for unequaled studio quality picture. Plus Satellite Receivers stands behind the equipment with a one-year warranty on parts and labor.

Options

- Twelve-foot antenna system
- Mesh antenna multiple receiver hookup

For more detailed information, refer to the separate component sheets in the back of this folder.

Shown with optional Green Bay Polar Mount and optional Boot Kit.

M/A-COM Prodelin Reflectors

Eight-Foot Reflector

- State of the art compression molded fiberglass assures consistent quality
- Three segmented, lightweight and interchangeable petals provide easy handling and reduced shipping costs
- Interlocking tabs assure positive self-alignment and easy installation

This eight-foot reflector is included in the Home Satellite System I.

Ten-Foot Reflector

- Compression molded fiberglass provides exceptionally high strength-to-weight ratio, and assures consistent quality
- Eight individual reflector segments are interchangeable and field replaceable; segments reduce size of shipping containers for reduced handling and transportation costs
- Integral indexing tabs assure positive self-alignment
- Textured front surface diffuses sunlight and reduces solar heating at focal point
- Easily erected without cranes or special hoisting gear
- Not affected by salt, pollutants or corrosive contaminants often encountered in coastal and industrial areas

This ten-foot reflector is included in the Home Satellite System II.

Note: Twelve-foot dish also available

Available from your dealer, or contact:

Satellite Receivers Ltd.
1740 Cofrin
Green Bay, Wisconsin 54302
(414) 432-5777
1-800-556-8876

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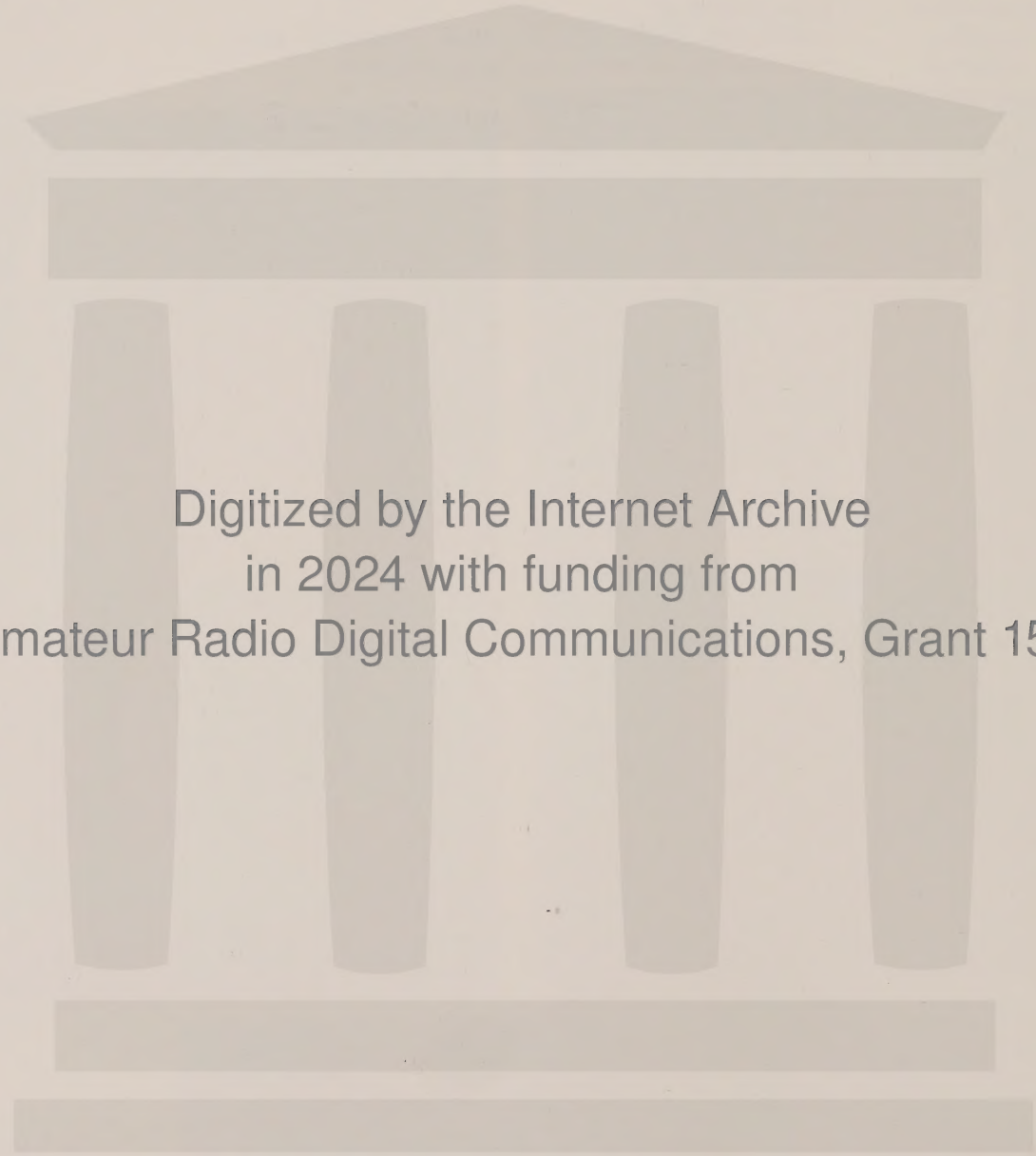

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M/A-COM T-1 and H-1 Satellite Receivers

M/A-COM T-1 Satellite Receiver

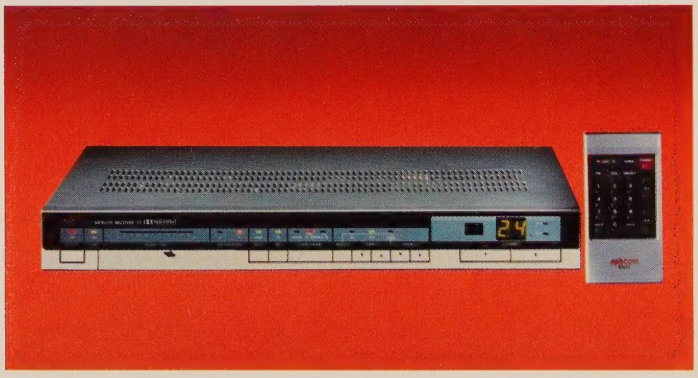
- Attractive, streamlined design blends with any decor
- Remarkably convenient and easy to use
- Microprocessor controls guarantee one-time-only programming and tuning, even in the event of a power failure
- Parental supervision channel lock-out
- Single IR remote control unit fits in the palm of your hand, and operates at the touch of a button
- Accepts both mechanical and electronic polarization controls
- Dolby noise reduction
- Blockdown conversion permits independent channel selection on each receiver when multiple receiver locations are used in the same house

This M/A-COM T-1 Satellite Receiver is included in the Home Satellite System I.

M/A-COM H-1 Satellite Receiver

- Microprocessor controls guarantee one-time-only programming and tuning, even in the event of a power failure
- Parental supervision channel lock-out
- Large, single IR remote control unit is easy to handle, and the channel read-out is legible from across the room
- Accepts both mechanical and electrical polarization controls
- Programmable audio file stores over 70 audio frequencies
- Dynamic noise reduction
- Blockdown conversion permits independent channel selection on each receiver when multiple television sets are used in the same home

This M/A-COM H-1 Satellite Receiver is included in the Home Satellite System II.



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M/A-COM T-1 and H-1 Satellite Receiver Specifications

Every T-1 and H-1 Satellite Receiver System is packaged with an LNB and an infrared remote control unit. Features include automatic polarity selection, Direct or Matrix Stereo Processing and Parental Supervision Control. Refer to the following data for T-1 and H-1 Specifications.

Specifications	M/A-COM T-1 Satellite Receiver	M/A-COM H-1 Satellite Receiver
RF Input		
Frequency	3.7 to 4.2 GHz	3.7 to 4.2 GHz
Noise Temperature	120°K max.	120°K max.
Level	−88 dBm ±5 dB	−88 dBm ±5 dB
Connection	CPR229G Flange	CPR229G Flange
Image Rejection	greater than 40 dB	greater than 40 dB
IF Input		
Frequency	950 to 1450 MHz	950 to 1450 MHz
Impedance	75 ohms	75 ohms
FM Static Threshold	8 dB C/N min.	8 dB C/N min.
Second IF Section		
Frequency Output	140 MHz, upperside heterodyned	403 MHz
Bandwidth	Over 27 MHz	Over 27 MHz
Noise Temperature	15 dB Nominal	15 dB Nominal
Gain Control	AGC	AGC
Tuning Control	AFC	AFC
Video		
Bandwidth	10 Hz to 4.2 MHz	10 Hz to 4.2 MHz
Polarity	non-inverted	non-inverted
Dispersion Clamp	Greater than 40 dB	Greater than 40 dB
Impedance	75 ohm	75 ohm
Output Level	1V p-p	1V p-p
Connectors	RCA	Type F
Baseband Output	1V p-p, 75 ohms	1V p-p, 75 ohms
Audio		
Subcarrier	5.0 to 8.5 MHz	5.0 to 8.5 MHz
Modes	Monaural, Direct and Matrix Stereo	Monaural, Direct and Matrix Stereo
De-Emphasis	75 microseconds	75 microseconds
Output Level	2.5V p-p	2.5V p-p
Impedance	600 ohms, unbalanced	600 ohms, unbalanced
Connectors	RCA	RCA
Primary Power		
Source	115V AC ±10% (60 Hz)	114V AC (60 MHz)
Fuse	1 Ampere	1 Ampere
ODU Power		
Voltage	+15 to +21.2V DC	+15 to +21.2V DC
Current	150 mA (max.)	150 mA (max.)
Fuse	0.6 Ampere	0.5 Ampere
Mechanical		
Size	16½″ (W) x 11¾″ (D) x 2″ (H)	17⅓″ (W) x 13⅓″ (D) x 3⅓″ (H)
Weight	Less than 12 lbs.	Less than 14 lbs.

Specifications subject to change without notice.

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Lifts

PenTec MTI 2800 Stardrive Antenna Positioner

- Positioner made by General Motors
- Manual east/west satellite antenna positioner
- Provides continuous display of antenna location
- Large LED indicators are legible from across the room, and allow for simple control of positioner with optional hand-held infrared remote control
- Protected against power failures and transients
- Contains the controller/power unit; the number one acuator in the U.S., the saginaw acuator; 125 ft. of actuator cable; and optional hand-held infrared control unit
- Has a one-year warranty

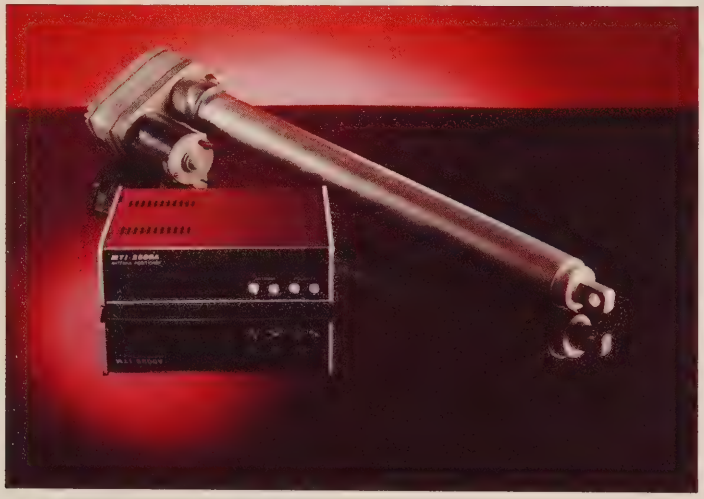
This PenTec MTI 2800 Stardrive Antenna Positioner is included in the Home Satellite System I.

PenTec MTI 4100 Infrared Remote Control Antenna Positioning System

- Positioner made by General Motors
- Includes automatic polarization control with Omni Rotor™, with fully independent satellite skewing
- Fully integrates infrared command reception and decoding, Polarotor pulse generation and motor control in the same chip, which means increased reliability over products with separate circuits
- Contains the number one acuator in the U.S., the saginaw acuator
- Does not require a battery (non-volatile memory)
- Has a one-year warranty

This PenTec MTI 4100 Infrared Remote Control Antenna Positioning System is included in the Home Satellite System II.

Accessories to Interact With Your Satellite TV Viewing Components



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Accessories to Interact With Your Satellite TV Viewing Components

Polarizers

M/A-COM Omni Polarizer

- Allows instantaneous switching between horizontal and vertical polarization with the flick of a switch
- Solid state reliability—no moving parts—insures trouble-free operation in any climate
- Low power consumption
- Simple, high speed switching without tweaking
- Reception is comparable to single plane polarized feeds
- No adjustments needed after initial installation and alignment
- Small, lightweight construction
- Low cost

This M/A-COM Omni Polarizer is included in the Home Satellite System II.

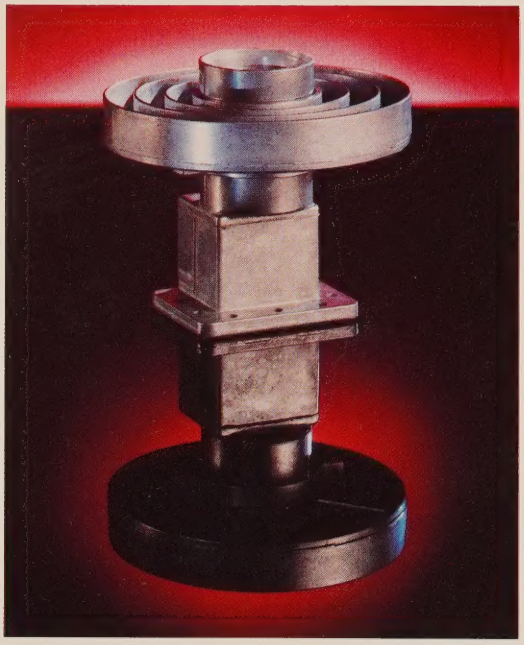
M/A-COM Omni Rotor™

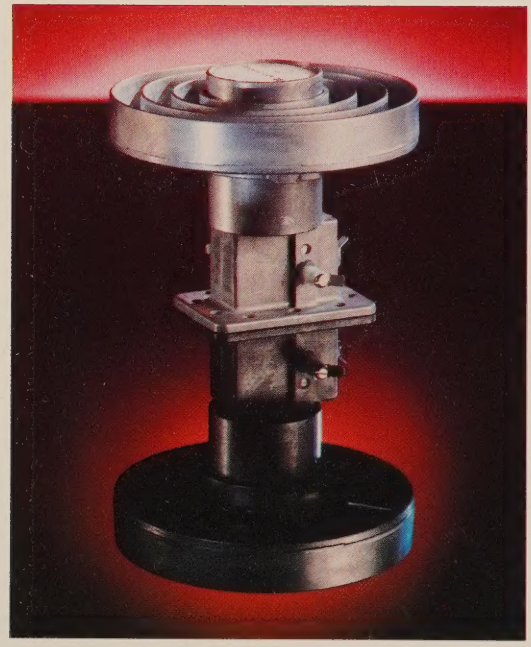
- Delivers greater reliability and better performance than any other mechanical polarization rotor available
- High quality, fail-safe motor, as used in industrial grade robotics, is completely sealed to protect against moisture and dirt
- Unique three-gear torque converter gives smooth and repeatable tuning, minimizes stress on motor
- Thicker probe assures greater reception of signal
- In-line design eliminates need for adapters, eliminates right angle bends and simplifies installation
- Full range tuning eliminates installation problems due to phase control
- Adjustable scaler optimizes antenna illumination for various f/d ratios, comes predrilled for standard installation
- Uses standard pulse drive voltage format provided by many receivers; Omni Controller is available for independent control

This M/A-COM Omni Rotor™ is included in the Home Satellite System I.

M/A-COM Prodelin Dual Feed (Not shown)

- Single piece aluminum castings for improved performance and lower cost
- Simultaneous reception of both polarizations, eliminating mechanical and electrical switching





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M/A-COM Mounts

Universal Mount— Eight-Foot Reflector

- For use with Prodelin's eight-foot reflector
- Retrofittable with the ten-foot antenna
- Utilizes three-point pickup, which provides uniform reflector support to the parabolic contour for increased signal quality
- Designed to track entire visible arc
- Declination settings from 2° to 10° allow virtually unlimited installation sites
- Mount design usable for either east or west coast installation
- Optional mast available as a tripod mount or 9-foot-long x 3½-inch-diameter schedule 40 inground mast
- Shipped partially assembled to reduce costly on-site assembly time

This Universal Mount is included in the Home Satellite System I.

Universal Mount— Ten-Foot Reflector

- For use with Prodelin's ten-foot reflector
- Utilizes four-point pickup, which provides uniform reflector support to the parabolic contour for increased signal quality
- Exclusively designed Prodelin polar mount tracks entire visible arc
- Declination settings from 2° to 10° allow virtually unlimited installation sites
- Rugged steel construction with painted, protective finish provides durability and long life
- Mount design usable for either east or west coast installation
- Optional mast available as a tripod mount or 9-foot-long x 3½-inch-diameter schedule 40 inground mast
- Shipped partially assembled to reduce costly on-site assembly time

Green Bay Polar Mount — Ten or Twelve-Foot Reflector

- For use with Prodelin's ten or twelve-foot reflector
- Capable of alignment with any visible satellite in the domestic geostationary orbit

Optional Azimuth/Elevation Mount

- For use with Prodelin's twelve-foot reflector
- Utilizes a 360° circular track to achieve full azimuth orientation
- Single control support adjusts elevation

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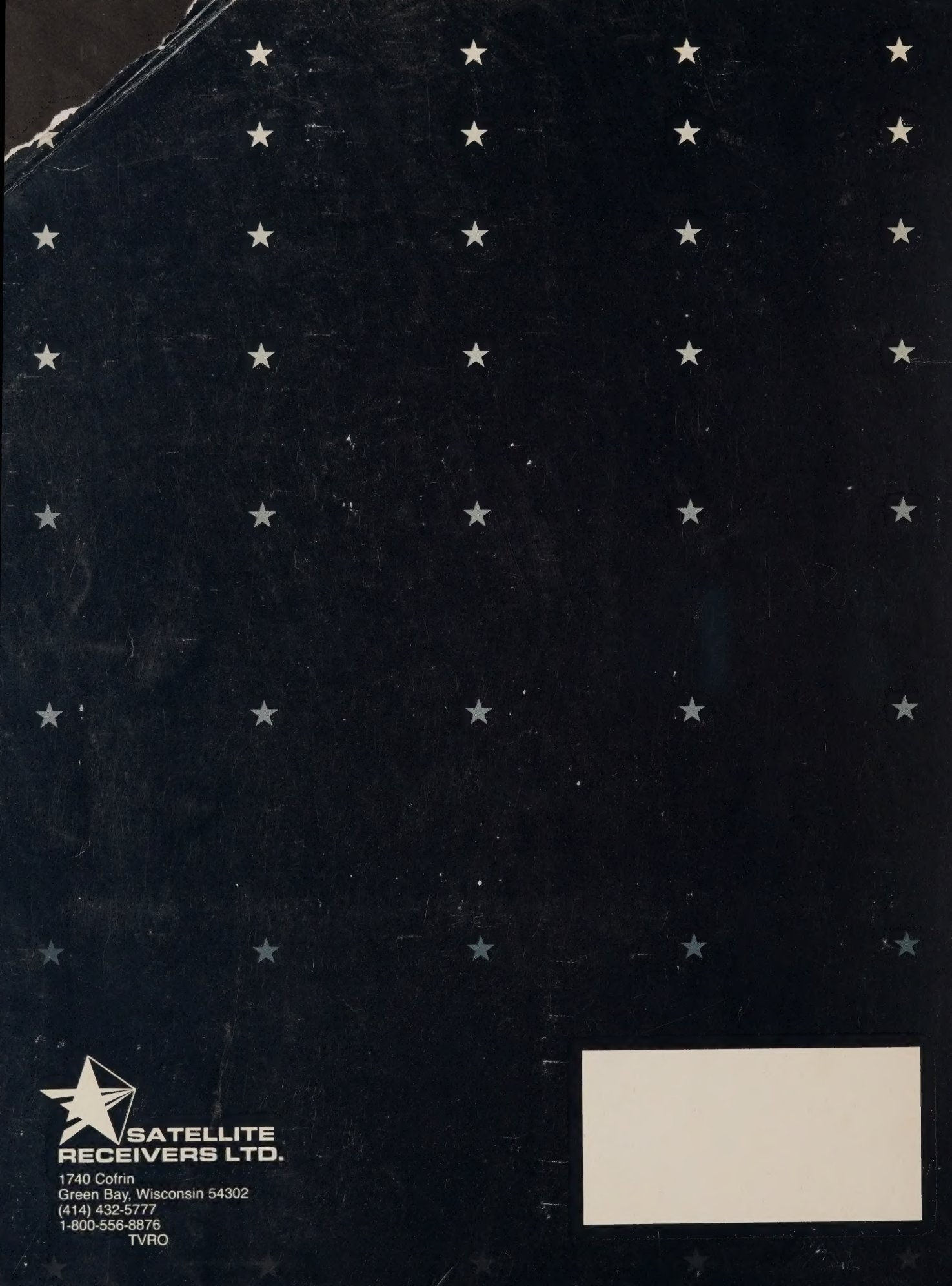

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